

Tessellation 23 (P)

Suite: Tessellation Party!

by Arya Akhavan (March 2013)

Angles for R.I. = 1.650

56 + 10 girdles = 66 facets

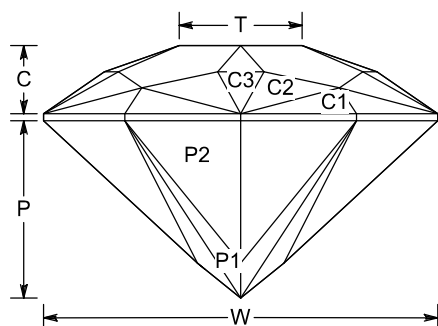
5-fold, mirror-image symmetry

80 index

L/W = 1.025 T/W = 0.312 U/W = 0.297

P/W = 0.448 C/W = 0.172

Vol./W³ = 0.205



PAVILION

P1	42.00°	07-09-23-25-39-41-55-57-71-73	Cut to centerpoint.
G1	90.00°	05-11-21-27-37-43-53-59-69-75	Set stone size.
P2	43.50°	05-11-21-27-37-43-53-59-69-75	Level girdle.

CROWN

C1	42.62°	05-11-21-27-37-43-53-59-69-75	Set girdle width.
C2	34.70°	04-12-20-28-36-44-52-60-68-76	Meet G1, C1
C3	30.49°	80-16-32-48-64	Meet G1, C1, C2
C4	20.00°	08-24-40-56-72	Meet C1, C2
C5	20.00°	80-16-32-48-64	Meet C2, C3, C4
T	0.00°	Table	Meet C4, C5

Well...I'm not really sure if this counts as something that belongs in the suite, since the triangles aren't regular, but it's the closest you can get to a regular arrangement with pentagons. Future versions might use a 120 index. Works in materials from beryl to rutile (RI = 1.58 - 2.62) with no changes, but I prefer rich kunzite. Suggested size = 6-10 mm.

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